

PROJECT: Midnite Mine Remediation**REPORT NO:** 2021-12**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining**SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:**

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period June 11 – 17, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period June 11 – 17, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: No incidents occurred during the reporting period. Over 50 Critical Control Verifications (CCV's) were completed this week with a 98% compliance rate.			

COMMUNITY LIAISON

- Notification sent from Newmont to Mr. Sherwood for possible road travel delays June 22-25 on West End Rd. in the area of construction of the new access road to Midnite Mine. Notification to be circulated through the Rawhide, and tribal portal. EMS to be notified.
- Notification for Helicopter flight over reservation on June 21 for rock-fall support at Midnite sent to Mr. Sherwood via email.
- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries and WTP Solids transport.

PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS**Weekly Progress Meeting:**

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 16 June 2021 at 10:00;

- EPA
- Spokane Tribe of Indians
- Jacobs
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec

Meeting Action Items:

- None

EPA Plan/Document Approvals:

- EPA approved the following work plans:
 - South Construction Support Zone Final Status Survey Work Plan (Rev1) on 16 June
 - NAR and Effluent Pipeline Work Plan (Rev2) on 16 June
 - Pit 3 Dewatering Work Plan (Rev1) on 18 June

Regulatory Site Visit(s):

- Mark Fillius, USACE, was on Site on 11 and 14-17 June.

REMEDIAL WORK ACTIVITIES

Construction:

During the week of June 11 – 17, 2021, the following activities were conducted:

- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP), the Pit 4 Overburden Pile, and the South Construction Support Zone (CSZ). Newmont placed these materials in the Pit 4 Waste Containment Area (WCA).
- Newmont installed additional riser sections on the Pit 4 Dewatering Risers.
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel, Liner Bedding and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with samples of Drain Gravel, Liner Bedding, and Geomembrane Bedding Material submitted to Budinger and Associates for gradation analysis.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 17 June. Visible dust from the crushing operation conformed with project requirements.
- Newmont began removing water from the South Pond leak detection layer following completion of the leak location testing.
- Hi-Tech Rockfall continued installing anchors for drapery mesh and attenuator systems on the west side of the Pit 3.
- Stantec performed South Pond Embankment Stability inspection on 18 June. The embankment remains stable, movement monitoring points remain within tolerance, and water level in the South Pond Piezometer is below pumping level. Groundwater level in the South Pond piezometer was monitored daily and remains below action level.
- Newmont began welding 3-inch HDPE pipe for the discharge line from GW-54 to South Pond.
- Newmont performed maintenance work on the site perimeter fence. Maintenance included removing trees that were leaning on the fence and closing gaps where animals had dug under the fence.
- Halme Construction fused HDPE pipe for the effluent pipeline along the New Access Road.
- Halme Construction began clearing and grubbing the effluent pipeline alignment along the New Access Road.
- Halme Construction placed one load of rock as a track pad at construction entrance to the New Access Road from West End Road.
- Halme Construction installed a road closure gate on Blue Creek Road.

Table 1 – 2021 Production Estimates

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	17,919	34,132	190%	297,604	400,092	134%	53%
HSWRP	1,889	0	0%	21,357	2,828	13%	4%
Pit 4 Overburden	14,700	43,960	299%	83,020	237,244	286%	71%
South CSZ	0	2,520	--	0	8,960	--	179%
Total	34,508	80,612	234%	401,981	649,124	161%	56%
Aggregate Production							
Drain Gravel	8,500	8,176	96%	100,300	67,592	67%	17%
Liner Bedding	0	683	--	8,610	6,557	76%	74%
Geomembrane Bedding	8,500	8,848	104%	100,300	69,515	69%	14%
Total	17,000	17,707	104%	209,210	143,664	69%	16%

1 - Truck load assumed to be 27 yd³

Stormwater Pollution Prevention Plan (SWPPP)

- Stantec performed the weekly SWPPP inspection on 15 June. No new BMPs or maintenance activities identified.
- Newmont began installing diversion channel along the east edge of the Pit 4 Overburden Pile.
- Halme Construction repaired BMP's damaged by natural fauna along the New Access Road

Spill Prevention, Control, and Countermeasure Activities (SPCC)

- A spill of approximately 10-15 gallons of hydraulic fluid from a haul truck that occurred on 10 June was reported to the EPA on 15 June. The contaminated soil was collected and placed in Pit 4.

Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Halme Construction 1139 Excavator.
- Halme Construction water truck.

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

Materials:

The following material was delivered to the Site during this reporting period.

- 1 load of 2.5" crushed rock for New Access Road construction entrance.

CONSTRUCTION QUALITY ASSURANCE

Dust Control and Monitoring

Seven dust monitors operated on site at the locations and for the time intervals listed in Table 2 below. There was one exceedance of the TSP action level ($>260 \mu\text{g}/\text{m}^3$) during this time-period.

The exceedance occurred at Sampler ES-7 located in the area northeast of crushing and screening operations on Thursday (6/17/2021). This area is subject to heavy haul truck traffic from crushing and screening operations, the geomembrane liner bedding stockpile, Pit 4 and Area 5 access roads. The alarm at ES-7 was due to dry dusty conditions combined with haul truck traffic on the various fronts. Water trucks were utilized to spray down all roads in and around this area. The duration of this exceedance was approximately 50 minutes with TSP concentrations ranging from 270 to 333 $\mu\text{g}/\text{m}^3$.

Table 2 - TSP Dust Monitoring Locations during reporting period June 11 – 17, 2021

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	D/N			D/N	D/N	D/N	D/N
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	D/N			D/N	D/N	D/N	D/N
ES-6 (roving)	East of HSWRP above High Road	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-8 (stationary)	Northeast Rim of Pit 3	05/19/21	O			O	O	O	O
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke, pollen, heavy rain, etc.) O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title		CQC-CQA Issue Date
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date

2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment Dewatering well pump test was conducted on Friday (5/28/2021). EPA Comments – Provide a summary report of findings with a final plan for dewatering. If dewatering is necessary, include a schedule for dewatering.	3/19/2021	Conditional Approval Received on 5/11/2021
2021-02	Modifications to Pit 3 Underdrain and Dewatering Sumps	6/8/2021	EPA - TBD
Notice of Non-Compliance			
NNC No. and Dates	Title/Description	CQA	CQA/EPA Response Date(s)
NNC 2020-01 11/5/2020	South Pond Emergency Spillway Grout Grout Placement at Supplemental GCS Completed on 5/12/2021. Provide 28-day Compressive Strength Grout Results - due on 6/9/2021. Received Passing Compressive Strength Results on 6/11/2021.	Close-out Pending Sign-offs	NNC 2020-01 Close-out Pending Completion of the Supplemental GCS at GCS-04
Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
HC-2021-04	Fiber Optic Cable Materials – Connectors Effluent Pipeline Stantec to Prepare Engineer's Input	5/26/2021	CQA – 6/18/2021 EPA - TBD
2021-04	Earthen Berm Pipe Anchor Stantec to Prepare Resubmittal Response	5/26/2021	CQA 6/4/2021 EPA – Disapproved 6/4/2021
HC-2021-05	Use of Low-Pressure Air Test Instead of Hydrostatic Test Effluent Pipeline Engineer's Response Received	6/7/2021 6/17/2021	CQA – TBD EPA - TBD
Submittals			
Submittal No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
01300-04	Rockfall Mitigation Material Information Waiting on Manufacturer's Certification Letters from Geobrugg and Williams Form w/r/t MTRs	5/4/2021	CQA Acceptance 5/27/2021 EPA - TBD
HC-02140-01.6	Proposed Dewatering Plan Effluent Pipeline Resubmit with Stabilization Work Plan – include section that identifies the period of record for Blue Creek historic data.	5/24/2021	CQA Acceptance 5/25/2021 EPA – Comments Received 6/3/2021
HC-02831-01.3	Northwest Fence Product Submittal Effluent Pipeline	5/24/2021	CQA – 6/14/2021 EPA – 6/16/2021
02594-14	HDPE Welding Certificates – Mine Site	6/4/2021	CQA Acceptance 6/10/2021 EPA – 6/16/2021

02970-06.1	Revised Midnite Mine Seed Mix List for Interim Stabilization – SW Topsoil Stockpile <i>Due to lack of availability – substitute different varieties of the same species.</i>	6/7/2021	CQA – 6/15/2021 EPA – 6/16/2021
HC-01575-02.1	Addendum to SPCC – Fuel Tanks Effluent Pipeline <i>EPA returned with Comments</i>	6/10/2021	CQA – 6/14/2021 EPA - TBD
02273-04	28-Day Compressive Strength Results for GCS-04A Grout	6/10/2021	CQA Acceptance 6/14/2021 EPA Approval 6/15/2021
HC-02593-01.1	Engineered Manhole Drawings Effluent Pipeline	6/15/2021	CQA – TBD EPA - TBD
HC-02200-01.1	Gradation Samples for Top/Base Course Effluent Pipeline	6/17/2021	CQA – TBD EPA - TBD
Other Items			
Item	Title	Comments	
None			

Copies of the updated CQA Logs are located on the project SharePoint site under the 2021 CQA Folder.

Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

Preparatory Inspections / Meetings

- None

Initial Phase Inspections

- Effluent Pipeline - Mobilization equipment inspections, HDPE pipe welding/trial welds and clearing and grubbing.

Follow-up Phase and Ongoing Inspections

- Ongoing South Pond Liner Repairs (Northwest Linings) – West Cell.
- Hi-Tech Rockfall – Scaling, installing additional wire mesh curtain panels, testing wire anchors and attenuation post anchor bolts on the west side of Pit 3.
- Checks on Mine Waste Placement in Pit 4 – Only low activity/low reactivity material from the SWRP, Middle Overburden Pile and South CSZ materials placed - no restrictions on placement.
- Periodic observations on placement of construction debris/trash in the Pit 4 WCA.
- Installation of Pit 4 Dewatering Risers – UDS and WRDS (290 and 250 feet total depth).

Completion Inspections

- None

THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:
<u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments <ul style="list-style-type: none">• Attachment A – Midnite Mine 3 Week Lookahead Schedule
Photos of pertinent items are provided below.



Figure 1 – Excavating low activity/low reactivity material at the SWRP.



Figure 2 – Excavating low activity/low reactivity material at the CSZ.



Figure 3 – Excavating low activity/low reactivity material at the Pit 4 Overburden.



Figure 4 – Excavating low activity/low reactivity material at the Pit 4 Overburden, view looking North.



Figure 5 – Conducting the pre-inspection of the Pit 4 Overburden Pile.



Figure 6 – Progress of backfilling Pit 4, view looking South from the Pit 4 overlook.



Figure 7 – Crushing and screening operations at the HSWRP.

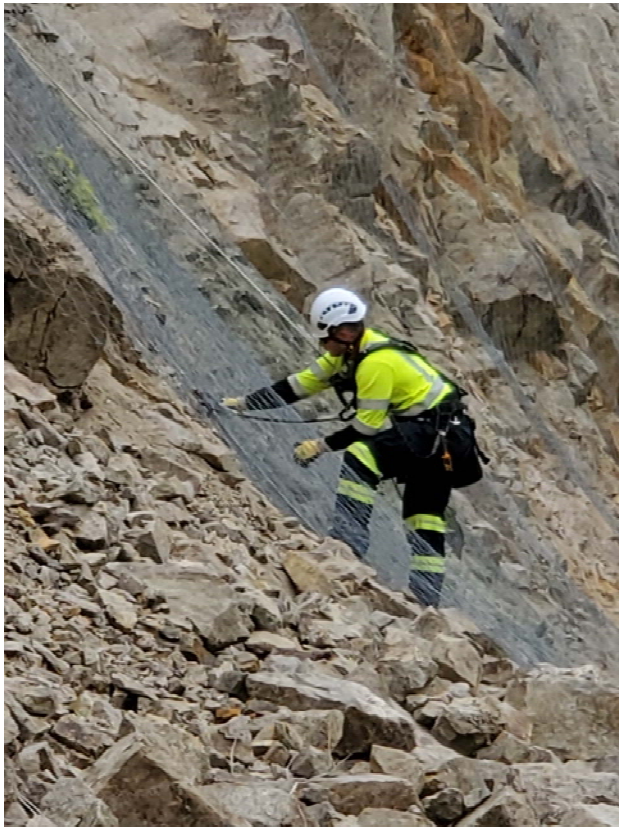


Figure 8 – Hi-Tech Rockfall clipping wire mesh curtains together, west side of Pit 3



Figure 9 – Hi-Tech Rockfall testing anchor bolts for the southernmost attenuator post bearing pad



Figure 10 – Effluent Pipeline - Halme Construction Preparing daily piping trial weld

ATTACHMENT A

MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE

Data Date: 18-Jun-21
Print Date: 18-Jun-21

Activity ID	Activity Name	RD	% Complete	Start	Finish			Jun 13						Jun 20						Jun 27						Jul 04						Jul 11				
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr			
17. Excavation and placement of materials into Pit #4		76d		29-Mar-21 A	05-Oct-21																															
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit	20d	75%	29-Mar-21 A	16-Jul-21																															
17-1220	Excavate and Haul Pit 4 Overburden middle section	76d	57%	12-May-21 A	05-Oct-21																															
18. Complete Repair of South Pond		16d		23-Apr-21 A	12-Jul-21																															
18-1040	Support South Pond Pumping Station construction Commision So	16d	50%	23-Apr-21 A	12-Jul-21																															
20. Haul and place Cover material over the Pit#4 WCA		131d		29-Mar-21 A	23-May-22																															
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	126d	4%	29-Mar-21 A	16-May-22																															
20-1060	Produce Geomembrane Bedding for Pit#4	126d	18%	29-Mar-21 A	16-May-22																															
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	131d	18%	29-Mar-21 A	23-May-22																															
26. Construct the new WTP and Pipeline for discharge		37d		03-Jun-21 A	10-Aug-21																															
26-1300	Haul mine waste materials to Pit#4	6d	50%	03-Jun-21 A	25-Jun-21																															
26-3070	Erosion Control BMP's & Site Controls	11d	10%	07-Jun-21 A	02-Jul-21																															
26-3090	Material Staging & Pipe Fusing	37d	10%	07-Jun-21 A	10-Aug-21																															
26-1270	Place erosion control Best Management Practices on New Stockpi	3d	5%	07-Jun-21 A	22-Jun-21																															
26-1290	Revegetate New Topsoil Stockpile	2d	0%	18-Jun-21	21-Jun-21																															
26-3080	Clearing & Grubbing	20d	0%	18-Jun-21	16-Jul-21																															
26-3100	HDD Pipe Segment - West End Road	5d	0%	22-Jun-21	28-Jun-21																															
26-3110	Begin at STA 14+63.53	0d	0%	22-Jun-21																																
26-3120	Install MH at STA 34+55	7d	0%	22-Jun-21	30-Jun-21																															
26-3130	Progress to STA 50+00	7d	0%	30-Jun-21	09-Jul-21																															
26-3140	Progress to STA 66+00	6d	0%	12-Jul-21	19-Jul-21																															
27. Produce drain rock and other materials necessary for the sub-waste line		127d		29-Mar-21 A	17-May-22																															
27-1000	Produce Drain Gravel for Pit 3	127d	22%	29-Mar-21 A	17-May-22																															
27-1030	Haul Drain Gravel, Stockpile (301k cy)	127d	22%	29-Mar-21 A	17-May-22																															
27-1060	Produce Liner Bedding for Pit 3	20d	75%	28-Apr-21 A	16-Jul-21																															
27-1070	Haul Liner bedding to Stockpile for Pit 3 (15,000 cy)	20d	75%	28-Apr-21 A	16-Jul-21																															
28. Initiate construct of the Pit#3 sump including initial construction of unde		30d		03-May-21 A	30-Jul-21																															
28-1250	Install rock fall protection	17d	70%	03-May-21 A	13-Jul-21																															
28-1150	Route new temporary line from GW54 to South Pond	30d	25%	09-Jun-21 A	30-Jul-21																															
28-1240	Remove and store/dispose transformers and safe-off high voltage	5d	0%	14-Jul-21	20-Jul-21																															